

**F-22 INFRASTRUCTURE AND UTILITIES
UPGRADE SEWER SYSTEM
LANGLEY AFB, VIRGINIA
AMENDMENT 1**

DRAWING REVISIONS:

1. Sheet G-002: Index of Drawings and Abbreviations

- a. Under the heading “General Notes”, revise Note 1 to read as follows:
“SLOPING, LAYING BACK OR BENCHING SHALL NOT BE PERMITTED. CONTRACTOR SHALL EMPLOY SHORING AS NECESSARY TO PERMIT VERTICAL CUTS FOR ALL EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE NEED FOR AND THE DESIGN OF ANY SHEETING AND SHORING THAT MAY BE REQUIRED.”

2. Sheet C-002: Site Plan

- a. Delete the following note:
“THIS SHEET NOT IN CONTRACT (NIC)”
- b. Add the following note:
“THIS SHEET - OPTION 1”

3. Sheet C-003: Site Plan

- a. Delete the following note:
“THIS SHEET NOT IN CONTRACT (NIC)”
- b. Add the following note:
“THIS SHEET - OPTION 1”

4. Sheet C-004: Site Plan

- a. Delete the following note:
“NOT IN CONTRACT (NIC) UPSTREAM OF STRUCTURE SD-177”
- b. Add the following note:
“THIS SHEET – OPTION 1”
- c. Delete the following from the Key Plan:

“(NIC)  “

- d. Revise the sheet notes as follows:

“NOTES

1. FOR PROFILES, SEE SHEETS C-012 AND C-014
2. CONSTRUCTION IN THE AIRCRAFT ACCESS WAYS AND PAVED AREAS BETWEEN BUILDING #753 AND #752 MUST BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISIONS AS IDENTIFIED IN SECTION 01005 OF THE PROJECT MANUAL. ALL STRUCTURES, PIPING AND ACCESSORIES WITHIN THESE AREAS MUST BE CAPABLE OF SUPPORTING AIRCRAFT WHEEL LOADS OF 17.5 TONS.”

- e. Revise Plan per sketch SK001.

- f. Revise Plan per sketch SK002.

5. Sheet C-005: Site Plan

- a. Add the following note:

“THIS SHEET – OPTION 1”

- b. Revise the sheet notes as follows:

“NOTES

1. FOR PROFILES, SEE SHEETS C-012, C-014, C015 AND C-016.
2. CONSTRUCTION IN THE AIRCRAFT ACCESS WAYS AND PAVED AREAS BETWEEN BUILDING #752 AND #751 AND BETWEEN BUILDING #751 AND #750 MUST BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISIONS AS IDENTIFIED IN SECTION 01005 OF THE PROJECT MANUAL. ALL STRUCTURES, PIPING AND ACCESSORIES WITHIN THESE AREAS MUST BE CAPABLE OF SUPPORTING AIRCRAFT WHEEL LOADS OF 17.5 TONS.”

- c. Revise Plan per sketch SK003.

6. Sheet C-006: Site Plan

- a. Delete the following note:

“THIS SHEET NOT IN CONTRACT (NIC)”


- b. Add the following note:

“THIS SHEET – OPTION 1”

7. Sheet C-007: Site Plan

- a. Delete the following note:
“THIS SHEET NOT IN CONTRACT (NIC)”
- b. Add the following note:
“THIS SHEET – OPTION 1”

8. Sheet C-008: Site Plan

- a. Delete the following note:
“NOT IN CONTRACT (NIC) UPSTREAM OF STRUCTURE SD-199”
- b. Add the following note:
“THIS SHEET – OPTION 1”
- c. Delete the following from the Key Plan:
 “
- d. Revise the sheet notes as follows:
“NOTES

1. FOR PROFILES, SEE SHEETS C-013 AND C-014
2. CONSTRUCTION IN THE AIRCRAFT ACCESS WAYS AND PAVED AREAS BETWEEN BUILDING #753 AND #752 MUST BE PERFORMED IN ACCORDANCE WITH SPECIAL PROVISIONS AS IDENTIFIED IN SECTION 01005 OF THE PROJECT MANUAL. ALL STRUCTURES, PIPING AND ACCESSORIES WITHIN THESE AREAS MUST BE CAPABLE OF SUPPORTING AIRCRAFT WHEEL LOADS OF 17.5 TONS.”
- e. Revise Plan per sketch SK004.

9. Sheet C-009: Site Plan

- a. Revise the sheet notes as follows:
“NOTES

1. FOR PROFILES, SEE SHEETS C-012, C-014, C015 AND C-016.
2. CONTRACTOR SHALL INSTALL 10 LF OF PIPE WITH REMOVABLE PLUG FOR FUTURE EXTENSION.
3. CONSTRUCTION IN THE AIRCRAFT ACCESS WAYS AND PAVED AREAS BETWEEN BUILDING #752 AND #751 AND BETWEEN BUILDING #751 AND #750 MUST BE PERFORMED IN ACCORDANCE

WITH SPECIAL PROVISIONS AS IDENTIFIED IN SECTION 01005 OF THE PROJECT MANUAL. ALL STRUCTURES, PIPING AND ACCESSORIES WITHIN THESE AREAS MUST BE CAPABLE OF SUPPORTING AIRCRAFT WHEEL LOADS OF 17.5 TONS.”

- b. Revise Plan per sketch SK005.

10. Sheet C-012: Storm Sewer Profiles

- a. Delete the following note shown in three locations:
“NOT IN CONTRACT (NIC)
NOT IN CONTRACT FROM SD-121 TO SD-177”
- b. Revise Plan per sketch SK006.
- c. Revise Plan per sketch SK007.

11. Sheet C-013: Storm Sewer Profiles

- a. Delete the following note shown in three locations:
“NOT IN CONTRACT (NIC)
NOT IN CONTRACT FROM SD-73 TO SD-199”
- b. Revise Plan per sketch SK008.
- c. Revise Plan per sketch SK009.

12. Sheet C-014: Storm Sewer Profiles

- a. Delete the following note in all locations:
“NOT IN CONTRACT (NIC)”
- b. Add the following note:
“THIS SHEET – OPTION 1”
- c. Revise Plan per sketch SK0010.

13. Sheet C-015: Storm Sewer Profiles

- a. Revise Plan per sketch SK0011.
- b. Revise Plan per sketch SK0012.
- c. Revise Plan per sketch SK0013.

14. Sheet C-019: Proposed Drainage Structure Descriptions

- a. Revise the remark for structure SD-176, SD-218, SD-205, SD-174, SD-196, and SD-29 to the following:
“AIRCRAFT RATED FOR 17.5 TON WHEEL LOAD”
- b. Add the following note to the in the remarks column for SD-121, SD-120, SD-119, SD-118, SD-117, SD-116, SD-43, and SD-197:
“AIRCRAFT RATED FOR 17.5 TON WHEEL LOAD”

- c. Insert the following new structure data between SD-123 and SD-176 into the columns as indicated below:

STRUCTURE NUMBER	VDOT ST'D STRUCTURE TYPE	HEIGHT (FT)	NORTHING	EASTING	REMARKS
“SD-123A	MH-2	6.0’	N 3561100.24	E 12110928.22	AIRCRAFT RATED FOR 17.5 TON WHEEL LOAD”

- d. Insert the following new structure data between SD-158 and SD-174 into the columns as indicated below:

STRUCTURE NUMBER	VDOT ST'D STRUCTURE TYPE	HEIGHT (FT)	NORTHING	EASTING	REMARKS
“SD-158A	MH-2	6.0’	N 3561379.62	E 12111158.41	AIRCRAFT RATED FOR 17.5 TON WHEEL LOAD”

- e. Add the following to the remarks column for structure SD-166:
“USE NEENAH R-1500 MANHOLE FRAME AND COVER (OR EQUIVALENT) IN LIEU OF MH-1”

15. Sheet C-021: Typical Details, Demolition Plan and Section

- a. Add the following note:
“8. Building 720 demolition debris and exiting soil may contain asbestos and/or lead base paint contamination. Contractor shall perform testing for these contaminants and provide proper disposal in accordance with the project specifications.

16. Sheet C-022: Pump Station Site and Erosion Control Plan

- a. Revise Plan per sketch SK0014.

17. Sheet C-025: Erosion and Sediment Control Plan

- a. Revise Plan per sketch SK0015.

SPECIFICATIONS REVISIONS:

18. SECTION 01005

- a. Add Para. 1.5.4, Hangar Access, to read: Contractor shall maintain access to all operating hangars without interruption to normal base operations. Contractor shall notify Contracting Officer in writing a minimum of 72 hours prior to commencing construction activity in or around the hangars. All excavated materials shall be removed from the hangar areas. Stockpiling of materials on the Flightline or between adjacent hangars locations shall not be permitted.
- b. Add Para. 1.5.4.1, Open Excavation at Hangars, to read: Contractor shall complete all construction activity within each construction area adjacent to or between hangars within 5 calendar days. Contractor shall use accelerated concrete mixes to achieve full concrete compressive strength within 7 days for replacement of concrete pavement removed for installation of new storm sewer system at the Flightline and between adjacent hangars.
- c. Add Para 1.5.4.2, Limitation of Construction Activity at the Throat Area, to read: Contractor shall complete all construction activity at the throat area within 5 calendar days. The throat is defined as that distance across paved areas between adjacent hangars parallel to the Flightline.
- d. Add Para. 1.5.5, Access or Aircraft Towing, to read: Contractor shall maintain a minimum 25 foot clear distance, without any obstructions to towing operations, at the hangar locations at all times. Coordinate location of 25-foot clear distance with construction activity to permit normal aircraft towing activity by base personnel. Government shall give Contractor a 20-minute notice when aircraft towing activity shall commence. Contractor shall cease construction activity in the 25-foot clear distance location and shall remove all construction equipment and materials that may hinder aircraft towing activity. Contracting Officer shall be notified after construction equipment and materials have been removed. Any damage to Government equipment or property resulting from Contractor equipment or materials left in the 25-foot clear distance shall be paid for by Contractor.
- e. Add Para. 1.5.5.1, Frequency and Duration of Aircraft Towing, to read: Contractor shall anticipate approximately 4 aircraft towing activities per day. Approximate duration of each aircraft towing activity will be 15 minutes.
- f. Add Para. 1.5.5.2, Protection of Excavation during Aircraft Towing, to read: Contractor shall provide steel plates to cover excavation within the 25-foot clear

distance to maintain a minimum 25-foot towing area. Contractor shall install steel plates as required prior to any aircraft towing activity within the active construction area. Steel plates shall be designed to support a minimum wheel loading of 35,000 pounds (Service Load). Steel plates shall have a slip resistance surface for all surfaces that come in contact with airplane wheels. A Professional Engineer shall design steel plates. Submit sealed designs with calculations to Contractor Officer for review prior to fabricating steel plates.

- g. Add Para. 1.5.5.3, Limitation of Construction Activity at Andrews Street, to read: Contractor shall limit construction activity at Andrews Street to 100 feet measured parallel to the centerline of Andrews Street. Contractor shall limit excavation and any required clearances for equipment or staging of materials within the 100-foot distance. Contractor shall complete all construction within each construction area prior to commencing any work in any other construction area at Andrews Street. Contracting Officer shall approve completed work within each 100-foot distance prior to Contractor commencing work on other areas of Andrews Street.

19. SECTION 01111

- a. Delete Section 01111 in its entirety.

20. SECTION 01351

- a. Revise Para. 1.9 to delete reference to Task Hazard and Control Sheets attached to end of section.

21. SECTION 01356A

- a. Revise Para 1.1 to include reference Virginia Sediment and Control Handbook (1992. revised 2001).
- b. Revise Para. 1.2 to delete reference to NPDES permit attached to SECTION 01560.

22. SECTION 01560

- a. Add Para. 1.4.4, Asbestos Materials, to read: Asbestos materials may be encountered within the project site limits in the form of asbestos pipe, insulation, and associated materials. Contractor shall notify Contracting Officer if asbestos materials are encountered prior to removal and disposal.
- b. Add Para. 1.4.5, Lead Paint, to read: Lead paint may be encountered within the project site limits. Contractor shall notify Contracting Officer if lead paint is encountered prior to removal and disposal.

- c. Add Para 3.7, Removal and Disposal of Asbestos Materials and Lead Paint, to read: Contractor shall comply with all local, state, and federal regulations regarding the handling and disposal of asbestos materials and lead paint. Contractor shall provide personnel certified in the handling and disposal of hazardous materials if asbestos or lead paint materials are required to be removed from the project site.

23. SECTION 02072

- a. Add Para. 1.3 .p., to read: Work plan shall address handling, testing, and disposal of potentially contaminated sediments and debris that may be encountered during the demolition of existing structures within the project site.
- b. Revise Para 1.3., Shipping Manifest; F10, to read: Manifest in accordance with CFR 40 Part 262 Section 23, and CFR 40 Part 263 and 9VAC 20-60 and 9VAC 20-110. No hazardous waste may leave the base unless CEV personnel sign the manifest.
- c. Add Para. 1.6, Available Data, to read: A geotechnical investigation of the site was not performed. The results of nearby historical investigations including boring logs are attached at the end of this section. Groundwater is typically encountered at elevations 2 feet below existing ground surface and fluctuates with season, tide, and rainfall. Soils at and below the groundwater table are typically sand with shell fragments and little silt, and are highly transmissive. Recent excavations approximately 12 feet deep for an electric vault yielded flows in excess of 50 gallons per minute.
- d. Add Para 1.7, Environmental Protection, to read: The Contractor shall take necessary measures specified herein, shown in Section 01560 Environmental Protection (Project Site), and as otherwise required, to protect the environment.
- e. Revise Para 2.1, Backfill Material, to read: Backfill material shall be as specified in Section 02221, Excavation, Filling and Backfilling for Buildings, and Section 02222, Excavation, Trenching and Backfilling for Utilities Systems. Backfill shall be classified in accordance with ASTM 2487 as GW, GP, GM, GC, SW, SP, or SM and shall be free from roots and other organic matter, trash, debris, snow, ice or frozen materials. Soils classified as SC and MH shall be considered cohesive for density testing purposes. If off-site materials are used, soil classification test results shall be approved prior to bringing material onsite. Non-contaminated material removed from the excavation can be used for backfill in accordance with paragraph Backfilling, if it meets the soils classification listed above. Re-use of non-contaminated materials shall be approved by Contracting Officer prior to re-installing materials.
- f. Add Para. 3.3.1.1, Dewatered Water, to read: Containerization, characterization, treatment and discharge in accordance with these plans and specifications will not be measured and all associated costs shall be included in the Contractor's lump sum bid price.

- g. Revise Para. 3.3.2.c., Stockpiling Contaminated Soil, to read: Contaminated soil shall be placed on an impermeable geomembrane a minimum of 20 mils thick or on two (2) layers each a minimum of 10 mils thick, and covered with a 10 mil sheet of geomembrane. The geomembrane shall be placed such that the stockpiled soil does not come in contact with surface water run-off. The 10 mil geomembrane cover shall prevent rain or surface water from coming into contact with the contaminated soil, as well as limit the escape of the volatile constituents in the stockpile. All geomembrane shall be securely anchored to prevent movement or dislocation during placement of stockpile materials or against environmental conditions.
- h. Revise Para. 3.3.3, Contaminated Water, to read: All water removed from any excavation performed with the Project considered to exceed the Virginia permitted discharge concentrations, and all costs from collection to final discharge shall be included in the Contractor's lump sum price. The water shall be contained and stored on-site and shall be sampled and analyzed prior to being discharged after all necessary treatment. Water that will be treated for permitted discharge on site shall be stored in a sedimentation tank fitted with a bag filter or equivalent system at the outlet, as necessary to minimize solids that will be passed to the downgradient treatment system and/or discharge receiving waters. No Government facilities shall be used for storage of the waste. The Contractor shall provide approved containers, vehicles, equipment, labor, signs, placards, labels, and manifests necessary for accomplishment of the work, including materials necessary for cleaning up spills that could occur from the excavation operation.
- i. Revise Para. 3.3.4.a., Sample and Analysis, to read: Contaminated water shall be sampled and analyzed, and certified results received, prior to treatment and discharge. Analytical results for water discharged to the storm sewer system or other permitted locations shall be furnished within 72 hours of sample collection, or more frequently if required by the issued permit. Documentation of all analyses performed shall be furnished to the Contracting Officer in accordance with Paragraph Records. Type and frequency of analyses for contaminated water to be discharged to the storm sewer system or other permitted location shall conform to the permit requirements of 9VAC 25-120 for contamination by gasoline and petroleum products other than gasoline to be discharged to freshwater or saltwater receiving waters, except as modified by the permitting agency. Sampling and analyses of contaminated water and treated water, and the Contractor and laboratory quality assurance programs, shall be in accordance with the approved Sampling and Analysis Plan.
- j. Revise Para. 3.3.4.b., Treatment and Disposal, to read: All water shall be treated on site. Off site disposal of water shall not be permitted. Water that cannot be discharged into the storm water drainage system or other permitted location without causing a violation of 9VAC 25-12- or 9VAC 25-260 or Section 01560 Environmental Protection (Project Site), shall be treated as necessary for discharge compliance. The selection of on-site treatment and discharge systems shall be solely at the Contractor's risk and responsibility and the Government shall assume no responsibility for any lack of data or

for any assumptions made by the Contractor. Contaminated water to be treated on site shall be passed through a carbon filtration and/or other appropriate treatment system placed downstream of the specified sedimentation tank/filtering system. The proposed treatment, including methods for removing any free product if encountered, shall be included in the Work Plan, and the resulting compliant water shall be discharged as specified below for discharge of uncontaminated water. The Contractor shall be solely responsible for selection, operation, and effectiveness of the sedimentation tank and filtering/treatment systems components.

- k. Revise Para. 3.3.5., Discharge of Uncontaminated Water, to read: Water that meets the applicable requirements of 9VAC 25-120 and 9VAC 25-260, specified in Section 01560, Environmental Protection (Project Site), and VPDES permit per 9VAC 25-31 and 9VAC 25-180 may be discharged into the storm water drainage system or other permitted location at the site as directed by the Contracting Officer. Discharge location and methods and sediment removal procedures shall minimize disturbance to the receiving media in accordance with applicable specifications and permits, and shall be approved prior to implementation. For any non-compliance, discharge shall be halted and measures shall be taken as necessary to comply with the applicable specification and permit requirements.
- l. Add Soil Boring Appendix (attached) to the end of Section 02072.

BORING LOG APPENDIX